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☐ 1. Document ID: US 6044842 A

L4: Entry 1 of 9

File: USPT

Apr 4, 2000

US-PAT-NO: 6044842

DOCUMENT-IDENTIFIER: US 6044842 A

TITLE: Gasketless connecting adapter

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pereira; Michael	Lincoln	RI	02865	N/A
Jarry; David	Woonsocket	RI	02895	N/A
Ricci; Anthony	Cranston	RI	02921	N/A

US-CL-CURRENT: 128/202.27; 128/206.17, 55/DIG.33, 95/286, 95/287,
96/133

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5752527 A

L4: Entry 2 of 9

File: USPT

May 19, 1998

US-PAT-NO: 5752527

DOCUMENT-IDENTIFIER: US 5752527 A

TITLE: Smoker's accessory

DATE-ISSUED: May 19, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowen; Larry	Orangeville	N/A	N/A	CAX
Snaidr; Stanislav M.	Mississauga	N/A	N/A	CAX

US-CL-CURRENT: 131/175; 131/185, 131/187, 131/200, 131/202

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5579761 A

L4: Entry 3 of 9

File: USPT

Dec 3, 1996

US-PAT-NO: 5579761

DOCUMENT-IDENTIFIER: US 5579761 A

TITLE: Respirator having snap-fit filter cartridge

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yuschak; Gregory	Hudson	WI	N/A	N/A
Rekow; Peter O.	Woodbury	MN	N/A	N/A
Holmquist-Brown; Thomas W.	St. Paul	MN	N/A	N/A

US-CL-CURRENT: 128/206.17; 128/201.25, 128/202.27, 128/206.12,
128/206.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5497791 A

L4: Entry 4 of 9

File: USPT

Mar 12, 1996

US-PAT-NO: 5497791

DOCUMENT-IDENTIFIER: US 5497791 A

TITLE: Smoker's accessory

DATE-ISSUED: March 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowen; Larry	Orangeville	N/A	N/A	CAX
Snaidr; Stanislav M.	Mississauga	N/A	N/A	CAX

US-CL-CURRENT: 131/175; 131/187, 131/201, 131/202

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5372130 A

L4: Entry 5 of 9

File: USPT

Dec 13, 1994

US-PAT-NO: 5372130

DOCUMENT-IDENTIFIER: US 5372130 A

TITLE: Face mask assembly and method having a fan and replaceable filter

DATE-ISSUED: December 13, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stern; Donald J.	Bellingham	WA	N/A	N/A
Tryon; James A.	Seattle	WA	N/A	N/A

US-CL-CURRENT: 128/205.25; 128/206.17, 128/207.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5094236 A

L4: Entry 6 of 9

File: USPT

Mar 10, 1992

US-PAT-NO: 5094236

DOCUMENT-IDENTIFIER: US 5094236 A

TITLE: Face mask

DATE-ISSUED: March 10, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tayebi; Amad	Westford	MA	N/A	N/A

US-CL-CURRENT: 128/206.12; 128/206.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5080094 A

L4: Entry 7 of 9

File: USPT

Jan 14, 1992

US-PAT-NO: 5080094
DOCUMENT-IDENTIFIER: US 5080094 A

TITLE: Face mask

DATE-ISSUED: January 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tayebi; Amad	Westford	MA	N/A	N/A

US-CL-CURRENT: 128/205.29; 128/206.12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 4945907 A

L4: Entry 8 of 9 File: USPT Aug 7, 1990

US-PAT-NO: 4945907
DOCUMENT-IDENTIFIER: US 4945907 A

TITLE: Face mask

DATE-ISSUED: August 7, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tayebi; Amad	Westford	MA	N/A	N/A

US-CL-CURRENT: 128/206.12; 128/206.15, 128/206.17, 128/206.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 4856508 A

L4: Entry 9 of 9 File: USPT Aug 15, 1989

US-PAT-NO: 4856508
DOCUMENT-IDENTIFIER: US 4856508 A

TITLE: Face mask

DATE-ISSUED: August 15, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tayebi; Amad	Westford	MA	N/A	N/A

US-CL-CURRENT: 128/206.12; 128/206.15, 128/206.17, 128/206.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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L4: Entry 1 of 9

File: USPT

Apr 4, 2000

DOCUMENT-IDENTIFIER: US 6044842 A
TITLE: Gasketless connecting adapter

BSPR:

The present invention relates to personal safety inhalation equipment, particularly breathing mask filters. More particularly, the present invention relates to an adapter attachable at a first surface to a gas/vapor filter cartridge and at a second surface to a particulate filter cartridge wherein no gaskets are required to seal the adapter to either cartridge.

BSPR:

In a second aspect of the present invention, a filter adapter for airtight joining of a first filter to a second filter of a breathing mask includes:

DRPR:

FIG. 4 illustrates an adapter according to the present invention joining a particulate filter to a gas/vapor filter mounted on a face mask; and

DEPR:

Multiple axial spacing ribs 27 may be provided to ensure the interior of the first face 21 does not obstruct airflow between the through-passageway 25 and the gas/vapor cartridge 23. These ribs may be annular, radial as shown, or of another configuration. A lip 28 extending radially inward of the periphery 30 of the first face 21 ensures both a tight snap-fit and the acquisition of an airtight fit of the connecting adapter 20 to the gas/vapor cartridge 23. An internal peripheral flange 30 having a wide flat area 29 is provided to ensure an airtight seal against the gas/vapor cartridge 23 front face 22.

DEPR:

A lip 43 extending radially inward of the periphery 44 of the first face 41 ensures both a tight snap-fit and the acquisition of an airtight fit of the connecting adapter 40 to the gas/vapor cartridge 23. An internal peripheral flange having a wide flat area 45 is provided to ensure an airtight seal against the gas/vapor cartridge 23 front face 22.

DEPR:

FIG. 4 illustrates the adapter 20 or 40 snap-fit over a cartridge 23, joining a particulate filter 33 to a mask 50. The filter connection element 36 joins the filter 33 to adapter 20 or 40.

CLPR:

CLPR:

20. A filter adapter for airtight joining of a first filter to a second filter of a breathing mask, said filter adapter comprising: